



Species inventory

Spatial distribution of Madeira Island Laurisilva endemic spiders (Arachnida: Araneae)

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Abstract

Madeira island presents a unique spider diversity with a high number of endemic species, many of which are still poorly known. A recent biodiversity survey on the terrestrial arthropods of the native forest, Laurisilva, provided a large set of standardized samples from various patches throughout the island. Out of the fifty two species recorded, approximately 33.3% are Madeiran endemics, many of which had not been collected since their original description. Two new species to science are reported – *Ceratinopsis* n. sp. and *Theridion* n. sp. – and the first records of *Poeciloneta variegata* (Blackwall, 1841) and *Tetragnatha intermedia* Kulczynski, 1891 are reported for the first time for Madeira island. Considerations on species richness and abundance from different Laurisilva locations are presented, together with distribution maps for endemic species. These results contribute to a better understanding of spider diversity patterns and endemic species distribution in the native forest of Madeira island.

Keywords

Macaronesia, terrestrial arthropods, island endemics, laurel forest, biodiversity hotspot

Introduction

Interest on Madeira spider fauna started almost two centuries ago (Blackwall 1859, Blackwall 1862, Bosenberg 1895, Bristowe 1925, Denis 1962, Denis 1963, Denis 1964, Johnson 1863, Kulczynski 1899, Kulczynski 1905, Lowe 1832, Schenkel 1938, Schmitz 1895, Warburton 1892) and has continued until recently, with the description of several new species (Wunderlich 1987, Wunderlich 1992, Wunderlich 1995). Despite the major relevance for the knowledge of Madeiran spider biodiversity, these taxonomic studies are based on traditional *ad-hoc* manner, without a standardized methodology, which renders them inappropriate to explore species distribution patterns. In other words, although the *ad-hoc* approach may be useful in targeting specific localities or ecological niches by experienced collectors (Cardoso et al. 2009), it does not capture the real distribution of species. The lack of knowledge on species distribution is now referred to as the Wallacean shortfall (Lomolino 2004; see Cardoso et al. 2011), and the main objective of this contribution is to help to overcome this shortfall for Madeiran spiders associated with the native laurel forest – Laurisilva.

Laurisilva is a relict evergreen forest that covered part of the Mediterranean Basin during the Tertiary, being restricted nowadays to a few locations in the Macaronesian archipelagoes of the Azores, Madeira and Canary Islands, and in some secluded sites of North Africa (Neves et al. 1996). In the archipelago of Madeira, Laurisilva is restricted to the main island (Madeira), covering about 16000 ha and harbouring a large number of endemic fungi, plants and animals (Uva 2008; Borges et al. 2008). Taking in consideration the high natural value of this forest type, now internationally recognized (IUCN 1999, Myers et al. 2000), local entities created the Natural Park of Madeira with the aim of valuing, studying and protecting this unique ecosystem.

The latest spider checklist (Cardoso and Crespo 2008) reports the occurrence of 164 species for Madeira island. Among these species, 40 are considered single-island endemics (SIE) and some belong to genera that radiated in Madeira archipelago (e.g. *Dysdera* Latreille, 1804, *Hogna* Simon, 1885, *Pholcus* Walckenaer, 1805). Approximately 63% of the SIEs were collected exclusively from Laurisilva sites, strongly suggesting an intimate association between these species and this type of habitat. Although the Natural Park of Madeira has developed major efforts to protect and restore Laurisilva patches from human activities and invasive species, conservation measures specifically targeting endemic terrestrial arthropod fauna are yet to be put forward. Preliminary conservation priorities for the endemic invertebrate fauna have already been identified using taxonomically unbiased criteria (Martin et al. 2010, Martin et al. 2008), but there is still a lack of baseline information for most species. The collection of species distribution and abundance data using standardized sampling is paramount to assess species conservation

status. The aim of our study is therefore to provide information on the distribution of spiders endemic to the Laurisilva of Madeira island based on a large-scale assessment using standardized sampling.

Material and methods

Spiders were sampled using two standardized complementary techniques: pitfall trapping and direct sampling. Pitfall sampling was performed both in May-June 2006 (sites 1 to 28) and June 2007 (sites 29 to 36). A linear transect with 30 pitfall traps, 5 m apart, was set in each study site. Each trap consisted of a plastic cup (4.2 cm diameter by 7.8 cm height) protected with a plastic cover (15 cm diameter) attached ~3 cm aboveground to prevent flooding and loss of specimens. Ethyleneglicol (10%) and Turquin solution were used as preservatives in alternate traps along the linear transect (BALA protocol, Borges et al. 2006, Borges et al. 2005). The traps were active during a two-week period.

Direct sampling was performed in June 2007 for most sampling sites. The sampling design was semi-quantitative with a sampling unit defined as 30 minute/person of effective fieldwork. Direct sampling included the search of spiders in three microhabitats (under bark of dead tree trunks, mosses and lichens, on living tree trunks and under stones/leaf litter) with the collection of six replicates/microhabitat/site (total 18 samples per site).

For each spider species collected, we recorded information on sampling technique used, site location code (Table 1), number of captured specimens and gender whenever possible. Information on species distribution follows the World Spider Catalog (Platnick 2013), updated with records from regional checklists of the Macaronesian archipelagoes (Cardoso and Crespo 2008, Cardoso et al. 2010, Macias 2009). Furthermore, distribution maps are provided for each endemic species found in the Laurisilva of Madeira island (Figs 1, 2, 3, 4, 5). The specimens collected are deposited in the entomological collection of the Faculty of Sciences of the University of Lisbon (Portugal).

Table 1.

Study sites, sampling date/period and collecting method. Geographic coordinates in decimal degrees.

Study sites					Sampling	
Code	Site	Lat. (N)	Long. (W)	Altitude (m)	Pitfall trapping period	Direct sampling period
1	Funduras	32.7493	-16.8114	500	22.V-05.VI.2006	04.VI.2007
2	Funduras	32.7540	-16.8099	552	22.V-05.VI.2006	04.VI.2007
3	Faja da Nogueira – Levada Pte. Roquete	32.7391	-16.9156	1074	23.V-06.VI.2006	-
4	Faja da Nogueira – Mtdo. do Leacoque	32.7415	-16.9161	630	23.V-06.VI.2006	06.VI.2007
5	Faja da Nogueira – Casa do Levadeiro	32.7406	-16.9136	989	23.V-06.VI.2006	-

6	Faja da Nogueira – Mtdo. do Leacoque	32.7418	-16.9177	614	23.V-06.VI.2006	06.VI.2007
7	Faja da Nogueira – Tanque	32.7425	-16.9168	845	23.V-06.VI.2006	06.VI.2007
8	Faja da Nogueira – Til Gigante	32.7457	-16.9150	841	23.V-06.VI.2006	06.VI.2007
9	Queimadas	32.7873	-16.9047	841	24.V-07.VI.2006	05.VI.2007
10	Pico das Pedras	32.7841	-16.9055	883	24.V-07.VI.2006	05.VI.2007
11	Achada do Teixeira	32.7733	-16.9081	1211	24.V-07.VI.2006	05.VI.2007
12	Achada do Teixeira	32.7762	-16.9022	1103	24.V-07.VI.2006	05.VI.2007
13	Ribeiro Frio – Viveiro	32.7354	-16.8864	906	24.V-06.VI.2006	05.VI.2007
14	Ribeiro Frio – Cottages	32.7319	-16.8861	994	24.V-07.VI.2006	06.VI.2007
15	Pico do Areeiro	32.7231	-16.9109	1533	24.V-07.VI.2006	-
16	Pico do Areeiro	32.7287	-16.9202	1594	24.V-07.VI.2006	-
17	Chao da Ribeira	32.7933	-17.1122	519	25.V-08.VI.2006	07.VI.2007
18	Chao da Ribeira	32.7957	-17.1117	491	25.V-08.VI.2006	07.VI.2007
19	Chao dos Louros	32.7636	-17.0190	748	25.V-08.VI.2006	07.VI.2007
20	Encumeada	32.7558	-17.0143	999	25.V-08.VI.2006	-
21	Ribeiro Bonito – Levada	32.8047	-16.9346	568	25.V-08.VI.2006	09.VI.2007
22	Ribeiro Bonito – Ribeiro	32.7985	-16.9360	560	25.V-08.VI.2006	09.VI.2007
23	Fanal	32.8302	-17.1585	755	26.V-09.VI.2006	-
24	Fanal – Levada dos Cedros	32.8259	-17.1580	820	26.V-09.VI.2006	09.VI.2007
25	Fanal	32.8236	-17.1560	890	26.V-09.VI.2006	09.VI.2007
26	Fanal	32.8226	-17.1539	889	26.V-09.VI.2006	09.VI.2007
27	Fanal	32.8182	-17.1521	1023	26.V-09.VI.2006	09.VI.2007
28	Fanal	32.8062	-17.1409	1134	26.V-09.VI.2006	10.VI.2007
29	Ginjas	32.7758	-17.0534	869	08-22.VI.2007	23.VI.2007
30	Caramujo	32.7722	-17.0529	981	08-22.VI.2007	-
31	Caramujo	32.7746	-17.0559	1001	08-22.VI.2007	-
32	Rabacas	32.7413	-17.0783	993	10-24.VI.2007	-
33	Rabacal	32.7647	-17.1341	930	10-24.VI.2007	25.VI.2007
34	Risco	32.7608	-17.1256	1048	10-24.VI.2007	25.VI.2007
35	Casa do Elias	32.8268	-17.1883	814	26.VI-10.VII.2007	-
36	Galhano	32.7971	-17.1729	975	27.VI-11.VII.2007	-

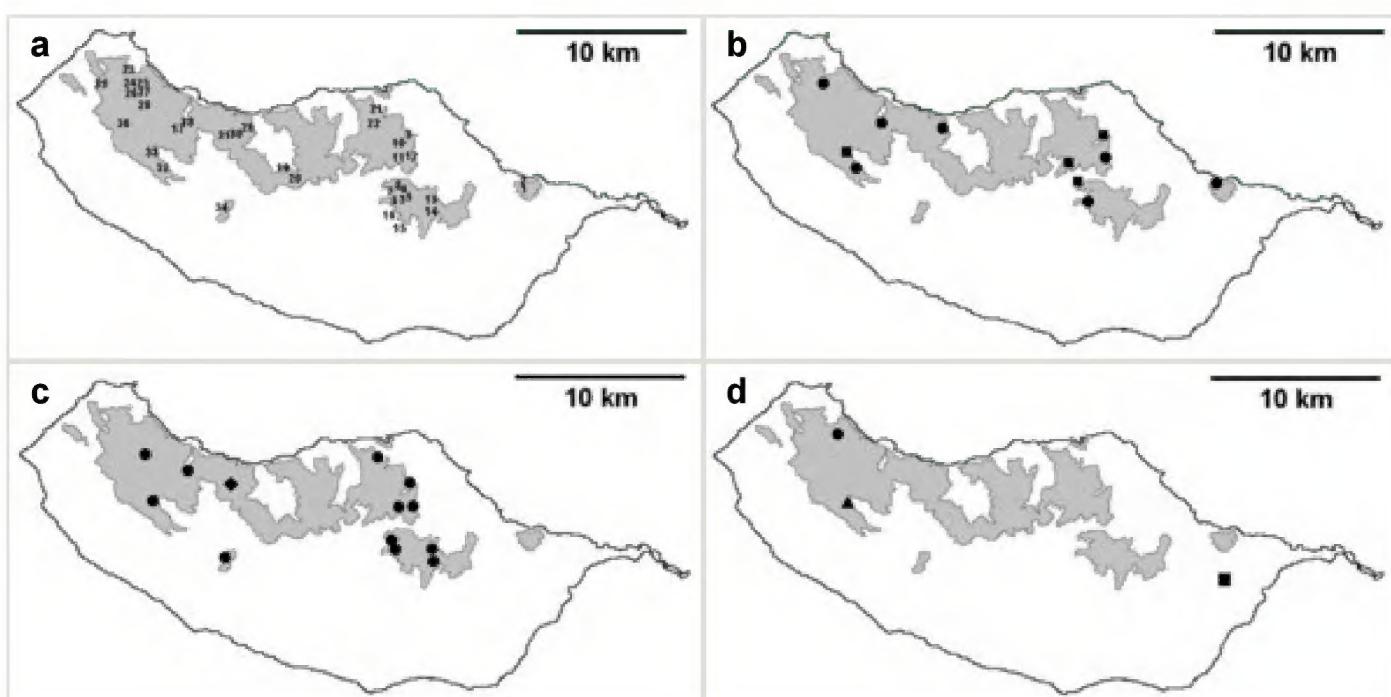


Figure 1.

Sampling sites and distribution of endemic spider species in Madeira island. See Table 1 for detailed information on site location. Circles: present records; rhombuses: records from Schenkel (1938); squares: records from Denis (1962); triangles: records from Wunderlich (1987).

a: sampling sites in Madeira island. Laurisilva cover shaded grey. Sites 15 and 16 are not in Laurisilva;

b: distribution of *Macarophaeus cultior*;

c: distribution of *Hahnia insulana*;

d: distribution of *Centromerus variegatus*.

Faunistic results

Laurisilva of Madeira

Natura 2000 code: [PTMAD0001](#), [PTMAD0002](#)

Description: The study took place in Madeira island located in the Atlantic Ocean, approximately 1000 km from the Iberian Peninsula. Sampling was conducted in thirty-six sites (Table 1), mostly in Laurisilva patches, the only exceptions being two sites on an alpine meadow near Pico do Areeiro, one of the highest mountains on the island. Laurisilva sites were mostly located in pristine or near pristine forest patches (Figs 1a, 6) where the dominant tree species included some of the following Madeiran or Macaronesian endemics: *Clethra arborea*, *Erica platycodon maderincola*, *Laurus novocanariensis*, *Ocotea foetens* and *Persea indica*. Additional information on plant species composition and conservation status of sampling sites can be found in Neves et al. 1996.

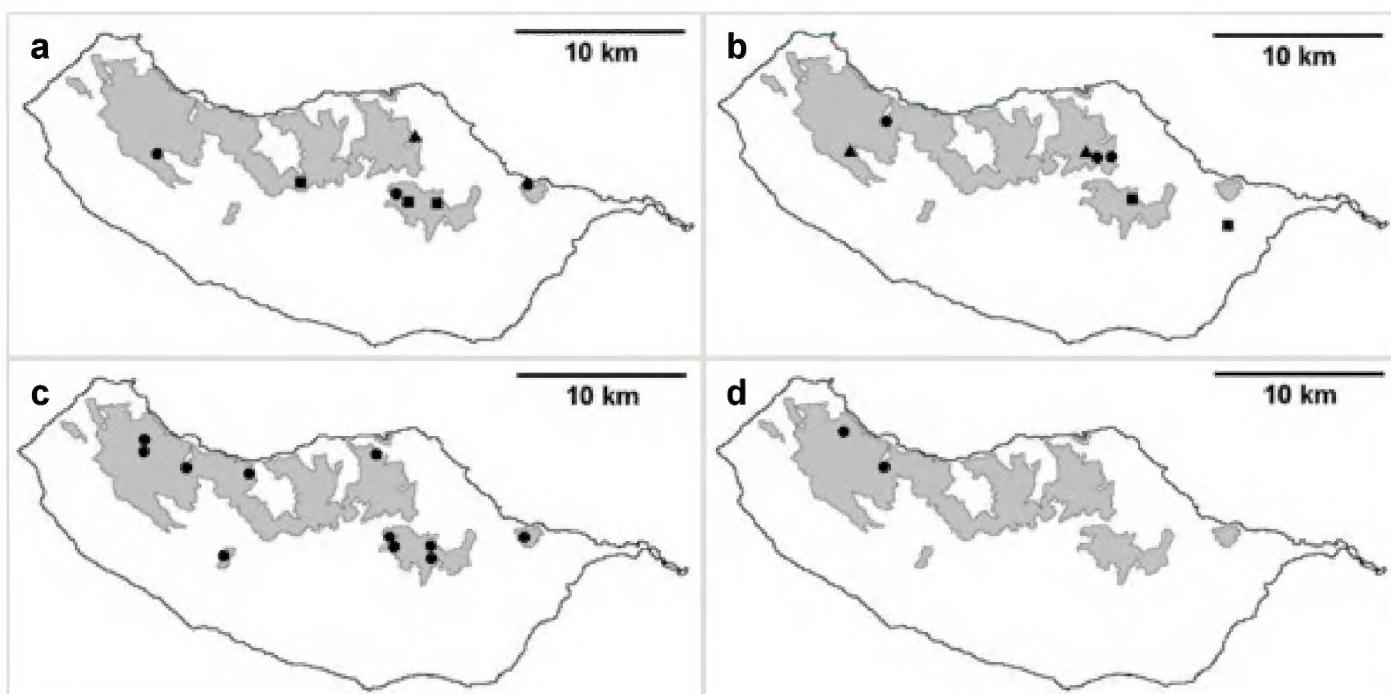


Figure 2.

Distribution of endemic spider species in Madeira island. Circles: present records; rhombuses: records from Schenkel (1938); squares: records from Denis (1962); triangles: records from Wunderlich (1987).

- a:** *Ceratinopsis acripes*
- b:** *Ceratinopsis infuscata*
- c:** *Ceratinopsis n. sp.*
- d:** *Frontinellina dearmata*

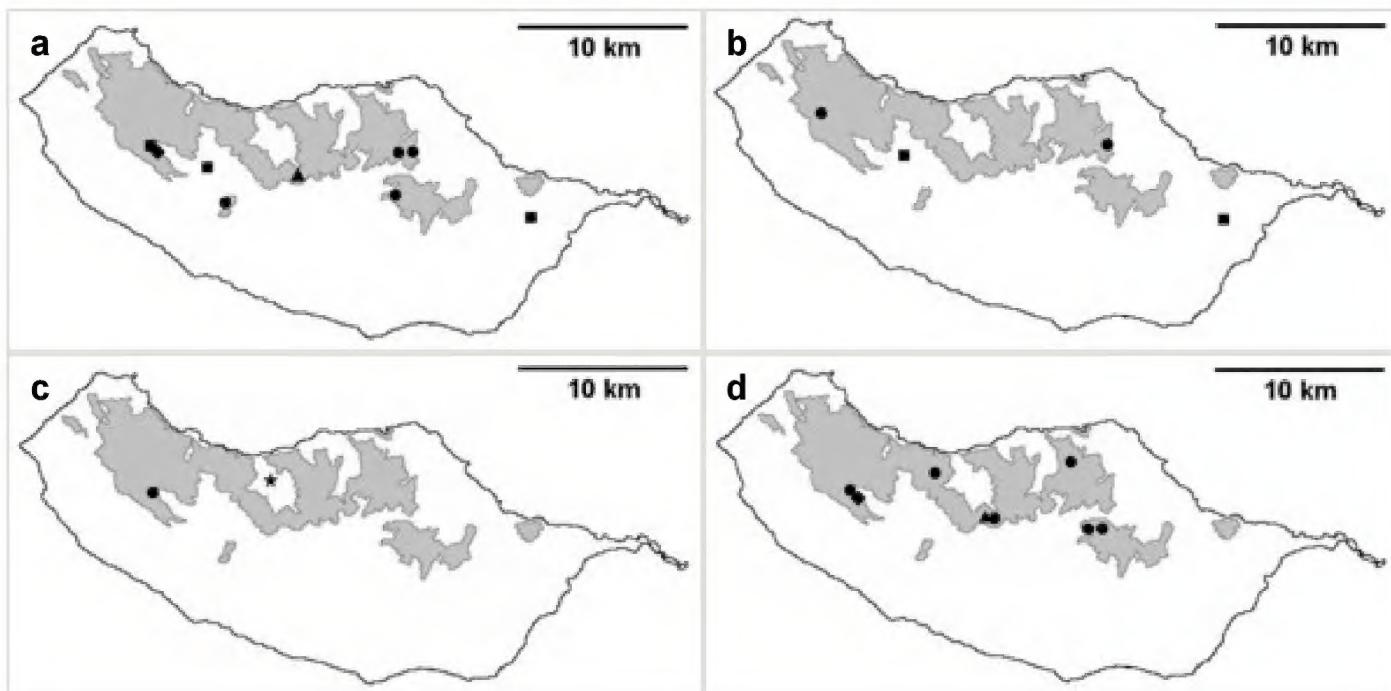


Figure 3.

Distribution of endemic spider species in Madeira island. Circles: present records; rhombuses: records from Schenkel (1938); squares: records from Denis (1962); triangles: records from Wunderlich (1987); stars: records from Wunderlich (1992).

- a:** *Frontiphantes fulgurennotatus*;
- b:** *Lepthyphantes impudicus*;
- c:** *Lepthyphantes mauli*;
- d:** *Turinyphia maderiana*.

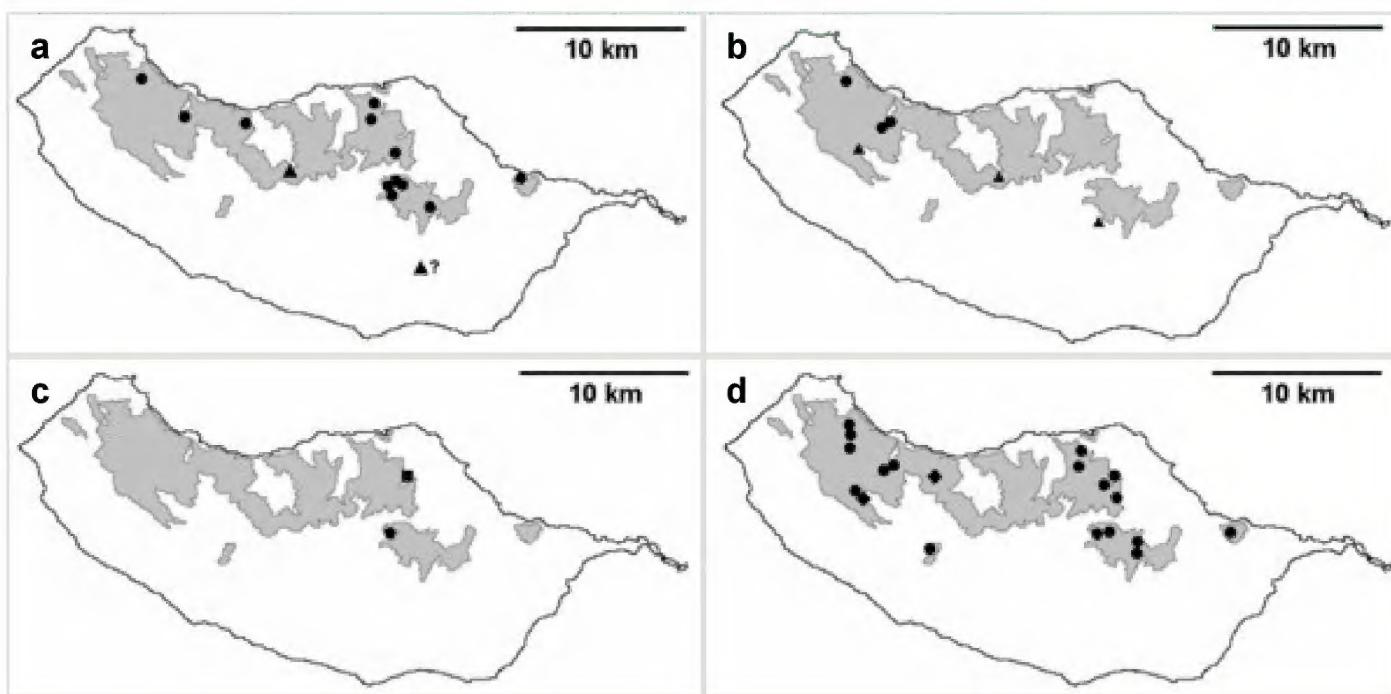


Figure 4.

Distribution of endemic spider species in Madeira island. Circles: present records; rhombuses: records from Schenkel (1938); squares: records from Denis (1962); triangles: records from Wunderlich (1987); stars: records from Wunderlich (1992).

- a:** *Trogloneta madeirensis*;
- b:** *Meta stridulans*;
- c:** *Dipoenata longitarsis*;
- d:** *Episinus maderianus*.

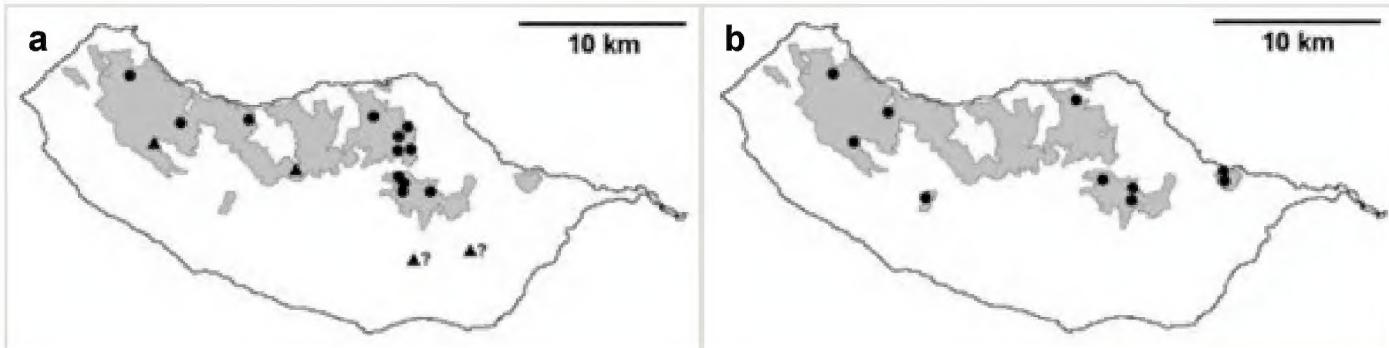


Figure 5.

Distribution of endemic spider species in Madeira island. Circles: present records; triangles: records from Wunderlich (1987).

- a:** *Rugathodes madeirensis*;
- b:** *Theridion n. sp.*



Figure 6.

Photos of some sampling sites in Laurisilva areas in Madeira.

- a: panoramic view of Faja da Nogueira;
- b: sampling site in Chao da Ribeira;
- c: sampling site in Rabacal;
- d: sampling site in Galhano.

***Zygiella minima* Schmidt, 1968**

Material

- a. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: macaronesian endemic

Distribution: Canary Islands, Deserta Grande island, Madeira island

Notes: This species was recently found for the first time in Madeira archipelago in an erosion cave of Deserta Grande island (Crespo et al. 2013), and its distribution has been now extended by this study to Madeira island.

Clubiona decora Blackwall, 1859

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- b. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- c. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- d. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- e. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
- f. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- g. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- h. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

- i. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: native

Distribution: Madeira archipelago, Azores, Balkans

Notes: Its presence in laurel forest suggests being a native species and its occurrence in the Balkans needs to be confirmed. In the Azores the species is very common in the laurel forest and in the canopies of low altitude orchards and exotic trees.

Lathys affinis (Blackwall, 1862)

Materials

- a. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- d. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 4 females
- e. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- f. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
- g. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio -

- Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- h. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 5 females
- i. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 females
- j. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
- k. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- l. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- m. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- n. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 females
- o. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 females
- p. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: macaronesian endemic

Distribution: Madeira archipelago, Canary Islands

Notes: This macaronesian endemic is widespread in the Laurisilva of Madeira island. L. Crespo has examined the material cited as *L. affinis* from the Canary Islands, deposited at the Senckenberg Naturmuseum of Frankfurt, and questions their species affiliation. Additional taxonomic analyses are thus needed to clarify the taxonomic status of the Canary Islands specimens.

***Nigma puella* (Simon, 1870)**

Material

- a. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: introduced

Distribution: Europe, Madeira archipelago, Azores, Canary Islands

***Haplodrassus dalmatensis* (L. Koch, 1866)**

Materials

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 13 males, 4 females
- b. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 20 males, 19 females

Native status: native

Distribution: Palearctic, Ethiopia

***Macarophaeus cultior* Kulczynski, 1899**

Materials

- a. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- b. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 5 females
- c. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
 - d. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
 - e. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 3 females
 - f. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
 - g. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females

Native status: SIE

Distribution: Madeira island (Fig. 1b)

Notes: So far this species has only been collected in the Laurisilva of Madeira island, where is commonly found under the bark of endemic trees.

***Micaria pallipes* (Lucas, 1846)**

Materials

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 9 males, 2 females
- b. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro;

verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 6 males, 7 females

Native status: introduced

Distribution: Madeira island, Canary Islands, Europe to Central Asia

***Zelotes civicus* (Simon, 1878)**

Materials

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 54 males, 25 females
- b. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 99 males, 36 females
- c. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- d. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 3 males

Native status: introduced

Distribution: Europe, Madeira archipelago

***Hahnia insulana* Schenkel, 1938**

Materials

- a. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males
- c. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas; verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- d. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 males, 1 female
- e. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- f. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- g. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males
- h. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- i. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- j. locationID: 34; higherGeography: Macarnesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 1c).

Notes: This is the first time this species was captured after its description (Schenkel 1938). The previous record only included adult specimens from Caramujo, but this study shows that the species has a wider distribution including many Laurisilva sites in Madeira island.

Centromerus variegatus Denis, 1962

Material

- a. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females

Native status: SIE

Distribution: Madeira island (Fig. 1d)

Notes: Records of *C. variegatus* are extremely scarce. After its formal description based on five specimens collected in Santo da Serra (Denis 1962), only an additional specimen was later reported from Rabacal (Wunderlich 1987).

Ceratinopsis acripes (Denis, 1962)

Materials

- a. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 2a)

Notes: *Ceratinopsis acripes* seems to be restricted to Laurisilva.

Ceratinopsis infuscata (Denis, 1962)

Materials

- a. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira;

- verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 2b)

Notes: *Ceratinopsis infuscata* seems to be restricted to Laurisilva, with an additional record from Santo da Serra (Denis 1962). This record might indicate a change in the landscape of Santo da Serra, which currently does not have Laurisilva.

***Ceratinopsis* n. sp.**

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- c. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- d. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
- e. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female

- f. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
- g. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- h. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- i. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- j. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- k. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 2c)

Notes: This is a new species to science, to be described in a future work. As the previous species of *Ceratinopsis*, it also seems to be restricted to Laurisilva.

Diplostyla concolor (Wider, 1834)

Materials

- a. locationID: 3; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Pte. Roquete; verbatimElevation: 1074; decimalLatitude: 32.7391; decimalLongitude: -16.9156; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- b. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro;

- verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females
- c. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- d. locationID: 20; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Encumeada; verbatimElevation: 999; decimalLatitude: 32.7558; decimalLongitude: -17.0143; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: introduced

Distribution: Holarctic

***Entelecara schmitzi* Kulczynski, 1905**

Materials

- a. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- b. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- c. locationID: 8; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Til Gigante; verbatimElevation: 841; decimalLatitude: 32.7457; decimalLongitude: -16.915; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- d. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
- e. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- f. locationID: 14; higherGeography: Macarnesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

- g. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- h. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- i. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 8 females
- j. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- k. locationID: 26; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 889; decimalLatitude: 32.8226; decimalLongitude: -17.1539; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
- l. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- m. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- n. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: native

Distribution: Madeira island, Azores, France

Notes: This species seems to be widespread in Madeira Laurisilva. In the Azores occurs at low altitude, being very common in the canopies of orchards and exotic trees.

Frontinellina dearmata (Kulczynski, 1899)

Materials

- a. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- b. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males

Native status: SIE

Distribution: Madeira island (Fig. 2d)

Notes: This is the first record of this endemic species since its original description, which is based on females only and fails to include the precise location of the type material. The specimens collected in this study will be used in a future work to describe the male of this endemic species.

Frontiphantes fulgurennotatus (Schenkel, 1938)

Materials

- a. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males
- b. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- c. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- d. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

Native status: SIE

Distribution: Madeira island (Fig. 3a)

Notes: This endemic species seems to be restricted to Laurisilva. The two records outside Laurisilva (Denis 1962) are most likely artifacts due to imprecise location of sampling localities and/or reductions in Laurisilva cover during the last decades.

Lepthyphantes impudicus Kulczynski, 1909

Materials

- a. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- b. locationID: 36; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Galhano; verbatimElevation: 975; decimalLatitude: 32.7971; decimalLongitude: -17.1729; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 3b)

Notes: Distribution data on *L. impudicus* is scarce consisting of only 4 records. This species seems to be associated with Laurisilva and the lack of congruence between historical data (Denis 1962) and the current distribution of Laurisilva may be explained by the lack of precision in the identification of sampling sites and/or by the decrease of Laurisilva cover in the last decades.

Lepthyphantes mauli Wunderlich, 1992

Material

- a. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male

Native status: SIE

Distribution: Madeira island (Fig. 3c)

Notes: This is solely the second record of this endemic species, thus enlarging its known distribution.

Meioneta fuscipalpa (C. L. Koch, 1836)

Material

- a. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males

Native status: introduced

Distribution: Palearctic

Microctenonyx subitaneus (O. Pickard-Cambridge, 1875)

Material

- a. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: introduced

Distribution: Holarctic

Microlinyphia johnsoni (Blackwall, 1859)

Material

- a. locationID: 8; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Til Gigante; verbatimElevation: 841; decimalLatitude: 32.7457; decimalLongitude: -16.915; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: macaronesian endemic

Distribution: Madeira archipelago, Azores, Canary Islands

Notes: A Macaronesian endemic also recorded from Porto Santo island and very common in native forests of the Azores.

Palliduphantes schmitzi (Kulczynski, 1899)

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras;

- verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females
- b. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras;
verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 8 females
- c. locationID: 3; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -
Pte. Roquete; verbatimElevation: 1074; decimalLatitude: 32.7391; decimalLongitude:
-16.9156; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- d. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -
Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude:
-16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 females
- e. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -
Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude:
-16.9161; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- f. locationID: 5; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -
Casa do Levadeiro; verbatimElevation: 989; decimalLatitude: 32.7406; decimalLongitude:
-16.9136; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 2 females
- g. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -
Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude:
-16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- h. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -
Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female
- i. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas;
verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female
- j. locationID: 10; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico das Pedras;
verbatimElevation: 883; decimalLatitude: 32.7841; decimalLongitude: -16.9055;
geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- k. locationID: 10; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico das Pedras;

- verbatimElevation: 883; decimalLatitude: 32.7841; decimalLongitude: -16.9055;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 2 females
l. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira;
verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081;
geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
m. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira;
verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 4 males, 2 females
n. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira;
verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 3 females
o. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro;
verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female
p. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro;
verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
q. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira;
verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males
r. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira;
verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 2 females
s. locationID: 19; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Chao dos Louros;
verbatimElevation: 748; decimalLatitude: 32.7636; decimalLongitude: -17.019;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 3 females
t. locationID: 20; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Encumeada;
verbatimElevation: 999; decimalLatitude: 32.7558; decimalLongitude: -17.0143;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males
u. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito -

- v. Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
 locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- w. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- x. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female
- y. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
- z. locationID: 30; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Caramujo; verbatimElevation: 981; decimalLatitude: 32.7722; decimalLongitude: -17.0529; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female
- aa. locationID: 31; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Caramujo; verbatimElevation: 1001; decimalLatitude: 32.7746; decimalLongitude: -17.0559; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
- ab. locationID: 36; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Galhano; verbatimElevation: 975; decimalLatitude: 32.7971; decimalLongitude: -17.1729; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males

Native status: macaronesian endemic

Distribution: Madeira island, Azores

Poeciloneta variegata (Blackwall, 1841)

Materials

- a. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

- b. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female

Native status: introduced

Distribution: Holarctic

Notes: First record for Madeira island.

Tenuiphantes tenuis (Blackwall, 1852)

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 males, 5 females
- b. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 3 females
- c. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 19 males, 22 females
- d. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 5 males, 7 females
- e. locationID: 3; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Pte. Roquete; verbatimElevation: 1074; decimalLatitude: 32.7391; decimalLongitude: -16.9156; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- f. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 5 males, 6 females
- g. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -

- Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 4 females
- h. locationID: 5; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Casa do Levadeiro; verbatimElevation: 989; decimalLatitude: 32.7406; decimalLongitude: -16.9136; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- i. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 8 males, 16 females
- j. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 4 females
- k. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 males, 7 females
- l. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 4 males, 1 female
- m. locationID: 8; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Til Gigante; verbatimElevation: 841; decimalLatitude: 32.7457; decimalLongitude: -16.915; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 males, 9 females
- n. locationID: 8; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Til Gigante; verbatimElevation: 841; decimalLatitude: 32.7457; decimalLongitude: -16.915; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 3 females
- o. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas; verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 3 females
- p. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas; verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females
- q. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 1 female
- r. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- s. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- t. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 3 males, 2 females
- u. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- v. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 5 males, 8 females
- w. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 15 females
- x. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 4 males, 1 female
- y. locationID: 19; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Chao dos Louros; verbatimElevation: 748; decimalLatitude: 32.7636; decimalLongitude: -17.019; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 2 females
- z. locationID: 20; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Encumeada; verbatimElevation: 999; decimalLatitude: 32.7558; decimalLongitude: -17.0143; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 4 females
- aa. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 6 males, 18 females
- ab. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 4 females
- ac. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 13 females
- ad. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 2 females
- ae. locationID: 23; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 755; decimalLatitude: 32.8302; decimalLongitude: -17.1585; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female
- af. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- ag. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 9 males, 3 females
- ah. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 3 females
- ai. locationID: 26; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 889; decimalLatitude: 32.8226; decimalLongitude: -17.1539; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
- aj. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- ak. locationID: 27; higherGeography: Macarnesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal;
verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 2 females
- al. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal;
verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409;
geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- am. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal;
verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 4 males, 2 females
- an. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas;
verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534;
geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males, 2 females
- ao. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas;
verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 3 females
- ap. locationID: 30; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Caramujo;
verbatimElevation: 981; decimalLatitude: 32.7722; decimalLongitude: -17.0529;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females
- aq. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas;
verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783;
geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- ar. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas;
verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 5 males, 13 females
- as. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal;
verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341;
geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males, 3 females
- at. locationID: 33; higherGeography: Macarnesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal;
verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 5 males, 2 females
- au. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males, 2 females
- av. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 4 females
- aw. locationID: 35; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Casa do Elias; verbatimElevation: 814; decimalLatitude: 32.8268; decimalLongitude: -17.1883; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 2 females
- ax. locationID: 36; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Galhano; verbatimElevation: 975; decimalLatitude: 32.7971; decimalLongitude: -17.1729; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 6 males, 6 females

Native status: introduced

Distribution: Palearctic (introduced, elsewhere)

Turinyphia maderiana (Schenkel, 1938)

Materials

- a. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female
- b. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 20; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Encumeada; verbatimElevation: 999; decimalLatitude: 32.7558; decimalLongitude: -17.0143; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
- d. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- e. locationID: 30; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Caramujo;

- verbatimElevation: 981; decimalLatitude: 32.7722; decimalLongitude: -17.0529;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
f. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal;
verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 3d)

Notes: This is the third record of this species. *Turinyphia maderiana* seems to be restricted to Laurisilva.

***Typhochrestus madeirensis* Crespo, 2013**

Material

Holotype:

- a. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro;
verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male

Native status: archipelago endemic

Distribution: Madeira island, Deserta Grande island

Notes: This species was recently described (Crespo et al. 2013), from native arid or semi-arid meadows. In Madeira archipelago this kind of habitat is usually found at high altitude, as in Pico do Areeiro where the species was collected.

Unidentified species

Material

- a. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic
Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;
countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas;
verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783;
geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female

Native status: native

Distribution: Madeira island, Porto Santo island

Notes: Although this is clearly a “micronetine”, species identification was impossible.

Pardosa proxima (C. L. Koch, 1847)

Materials

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 6 females
- b. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 11 males, 51 females

Native status: introduced

Distribution: Palearctic, Canary Islands, Azores, Madeira archipelago

Ero aphana (Walckenaer, 1802)

Material

- a. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

Native status: introduced

Distribution: Palearctic (St. Helena, Queensland, Western Australia, introduced)

Cheiracanthium albidulum (Blackwall, 1859)

Materials

- a. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

- d. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- e. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 males, 1 female
- f. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: macaronesian endemic

Distribution: Madeira archipelago, Canary Islands

Trogloneta madeirensis Wunderlich, 1987

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 females
- c. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- d. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
- e. locationID: 8; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Til Gigante; verbatimElevation: 841; decimalLatitude: 32.7457; decimalLongitude: -16.915; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

- f. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- g. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- h. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 females
- i. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 males, 5 females
- j. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
- k. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- l. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females

Native status: SIE

Distribution: Madeira island (Fig. 4a)

Notes: This species seems to be restricted to Laurisilva. Wunderlich (Wunderlich 1987) described *T. madeirensis* from only two sites, but the present study considerably enlarges the distribution of this endemic species throughout the Laurisilva of Madeira island.

Philodromus insulanus Kulczynski, 1905

Material

- a. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females

Native status: archipelago endemic

Distribution: Madeira island, Porto Santo island

Thanatus oblongiusculus (Lucas, 1846)

Material

- a. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female

Native status: introduced

Distribution: Palearctic

Chalcoscirtus sublestus (Blackwall, 1867)

Materials

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 5 males, 4 females
- b. locationID: 16; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1594; decimalLatitude: 32.7287; decimalLongitude: -16.9202; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 4 females

Native status: macaronesian endemic

Distribution: Madeira archipelago, Canary Islands

***Macaroeris diligens* (Blackwall, 1867)**

Materials

- a. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- b. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 4 females
- d. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- e. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- f. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- g. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 females
- h. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 females
- i. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 females
- j. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- k. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- l. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: macaronesian endemic

Distribution: Madeira archipelago, Azores

Notes: This Macaronesian endemic occurs both in Madeira and Porto Santo islands. In the Azores, it was reported from locations at low altitude, being very common in the canopies of orchards and exotic trees.

***Macaroeris* sp.**

Materials

- a. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- b. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males, 1 female

Native status: native

Notes: The taxonomy of the genus *Macaroeris* Wunderlich, 1992 is unclear, with some species still poorly described. Several specimens of this species were identified as different from *M. diligens*, but their species affiliation was not possible.

Pellenes maderianus Kulczynski, 1905

Materials

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
- b. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male

Native status: native

Distribution: Madeira island, Israel

Notes: Some confusion appears to exist regarding the identity of *P. maderianus*. Although most authors consider this species a valid taxon, some support that it is a synonymy of *P. epularis* (O. Pickard-Cambridge, 1872) (Logunov et al. 1999).

Meta stridulans Wunderlich, 1992

Materials

- a. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- b. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- c. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 4b)

Notes: Previous records were mostly from Laurisilva with a single record from a mountain area (Pico do Areeiro). Our records confirm the association of this endemic species with Laurisilva.

***Tetragnatha intermedia* Kulczynski, 1891**

Material

- a. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: introduced

Distribution: Portugal to Hungary, Russia, Madeira

Notes: First record for Madeira island. It is possible that previous records of *T. obtusa* C. L. Koch, 1837 from the Madeira archipelago (Cardoso and Crespo 2008) refer to *T. intermedia* as the former was believed to be a subspecies of the latter until the elevation of *T. intermedia* to species level (Wunderlich 2011).

***Cryptachaea blattea* (Urquhart, 1886)**

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 2 females
- b. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 females
- c. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 2 females
- d. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 6 females
- e. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females
- f. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- g. locationID: 6; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 614; decimalLatitude: 32.7418; decimalLongitude: -16.9177; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- h. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males
- i. locationID: 8; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Til Gigante; verbatimElevation: 841; decimalLatitude: 32.7457; decimalLongitude: -16.915; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- j. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas; verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- k. locationID: 10; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico das Pedras; verbatimElevation: 883; decimalLatitude: 32.7841; decimalLongitude: -16.9055; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 4 females
- l. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 4 males, 5 females
- m. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- n. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males, 1 female
- o. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females
- p. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males
- q. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- r. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- s. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male
- t. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 females
- u. locationID: 20; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Encumeada; verbatimElevation: 999; decimalLatitude: 32.7558; decimalLongitude: -17.0143; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 males, 4 females
- v. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 5 females
- w. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- x. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- y. locationID: 22; higherGeography: Macarnesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- z. locationID: 23; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 755; decimalLatitude: 32.8302; decimalLongitude: -17.1585; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 3 females
- aa. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 3 males, 4 females
- ab. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- ac. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 5 females
- ad. locationID: 26; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 889; decimalLatitude: 32.8226; decimalLongitude: -17.1539; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 2 females
- ae. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- af. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- ag. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 3 females
- ah. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females
- ai. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- aj. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- ak. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- al. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 4 females
- am. locationID: 35; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Casa do Elias; verbatimElevation: 814; decimalLatitude: 32.8268; decimalLongitude: -17.1883; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female

Native status: introduced

Distribution: Cosmopolitan

Dipoenata cf. longitarsis (Denis, 1962)

Material

- a. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

Native status: SIE

Distribution: Madeira island (Fig. 4c)

Notes: The male of *D. longitarsis* is unknown. This preliminary identification is based on the observation of somatical similarities between a male and a female hadrotarsine also collected in Laurisilva and identified as *D. longitarsis*.

Enoplognatha sattleri Bosenberg, 1895

Materials

- a. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females

- b. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: native

Distribution: Madeira island, Selvagens, Canary Islands

Episinus maderianus Kulczynski, 1905

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
- b. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
- c. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- d. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas; verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- e. locationID: 10; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico das Pedras; verbatimElevation: 883; decimalLatitude: 32.7841; decimalLongitude: -16.9055; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males
- f. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

- g. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 males
- h. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- i. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- j. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- k. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 4 females
- l. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
- m. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- n. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
- o. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- p. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

- q. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- r. locationID: 35; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Casa do Elias; verbatimElevation: 814; decimalLatitude: 32.8268; decimalLongitude: -17.1883; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 male, 1 female

Native status: SIE

Distribution: Madeira island (Fig. 4d)

Notes: Previous records of *E. maderianus* were made by Schenkel (Schenkel 1938) and are exclusive to the Laurisilva. The present study greatly widens up the distribution of this endemic species that seems to be widespread within Laurisilva.

Paidiscura orotavensis (Schmidt, 1968)

Materials

- a. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- b. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females

Native status: macaronesian endemic

Distribution: Madeira archipelago, Canary Islands

Rugathodes madeirensis Wunderlich, 1987

Materials

- a. locationID: 3; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Pte. Roquete; verbatimElevation: 1074; decimalLatitude: 32.7391; decimalLongitude: -16.9156; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- b. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira -

- Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- c. locationID: 8; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Til Gigante; verbatimElevation: 841; decimalLatitude: 32.7457; decimalLongitude: -16.915; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- d. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas; verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- e. locationID: 10; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico das Pedras; verbatimElevation: 883; decimalLatitude: 32.7841; decimalLongitude: -16.9055; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- f. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- g. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- h. locationID: 12; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1103; decimalLatitude: 32.7762; decimalLongitude: -16.9022; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- i. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- j. locationID: 17; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 519; decimalLatitude: 32.7933; decimalLongitude: -17.1122; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- k. locationID: 22; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Ribeiro; verbatimElevation: 560; decimalLatitude: 32.7985; decimalLongitude: -16.936; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 3 females
- l. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada

- dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- m. locationID: 28; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1134; decimalLatitude: 32.8062; decimalLongitude: -17.1409; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 1 female
- n. locationID: 29; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Sao Vicente; locality: Ginjas; verbatimElevation: 869; decimalLatitude: 32.7758; decimalLongitude: -17.0534; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: SIE

Distribution: Madeira island (Fig. 5a)

Notes: This species has been found mostly in Laurisilva. Its occurrence outside the largest areas of native forest may be explained by the existence of small, secluded micro-habitats composed of native flora, which might serve as ecological islands for forest species.

Steatoda nobilis (Thorell, 1875)

Material

- a. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: native

Distribution: Madeira archipelago, Canary Islands (elsewhere, introduced)

Theridion melanurum Hahn, 1831

Materials

- a. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- b. locationID: 7; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Tanque; verbatimElevation: 845; decimalLatitude: 32.7425; decimalLongitude: -16.9168; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

- c. locationID: 9; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Queimadas; verbatimElevation: 841; decimalLatitude: 32.7873; decimalLongitude: -16.9047; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- d. locationID: 11; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Achada do Teixeira; verbatimElevation: 1211; decimalLatitude: 32.7733; decimalLongitude: -16.9081; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 3 females
- e. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- f. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- g. locationID: 26; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 889; decimalLatitude: 32.8226; decimalLongitude: -17.1539; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 2 females
- h. locationID: 27; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 1023; decimalLatitude: 32.8182; decimalLongitude: -17.1521; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female

Native status: introduced

Distribution: Holarctic, Azores, Madeira

Theridion n. sp.

Materials

- a. locationID: 1; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 500; decimalLatitude: 32.7493; decimalLongitude: -16.8114; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
- b. locationID: 2; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Machico; locality: Funduras; verbatimElevation: 552; decimalLatitude: 32.754; decimalLongitude: -16.8099; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
- c. locationID: 4; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal;

- countryCode: PT; stateProvince: Madeira; county: Santana; locality: Faja da Nogueira - Mtdo. do Leacoque; verbatimElevation: 630; decimalLatitude: 32.7415; decimalLongitude: -16.9161; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- d. locationID: 13; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Viveiro; verbatimElevation: 906; decimalLatitude: 32.7354; decimalLongitude: -16.8864; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
 - e. locationID: 14; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Frio - Cottages; verbatimElevation: 994; decimalLatitude: 32.7319; decimalLongitude: -16.8861; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
 - f. locationID: 18; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Chao da Ribeira; verbatimElevation: 491; decimalLatitude: 32.7957; decimalLongitude: -17.1117; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
 - g. locationID: 21; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Ribeiro Bonito - Levada; verbatimElevation: 568; decimalLatitude: 32.8047; decimalLongitude: -16.9346; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 female
 - h. locationID: 24; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal - Levada dos Cedros; verbatimElevation: 820; decimalLatitude: 32.8259; decimalLongitude: -17.158; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
 - i. locationID: 33; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Rabacal; verbatimElevation: 930; decimalLatitude: 32.7647; decimalLongitude: -17.1341; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male, 1 female
 - j. locationID: 34; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Ponta do Sol; locality: Risco; verbatimElevation: 1048; decimalLatitude: 32.7608; decimalLongitude: -17.1256; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

Native status: SIE

Distribution: Madeira island (Fig. 5b)

Notes: This is a new species to science. It seems to be restricted to Laurisilva and is now being formally described (Van Keer, in prep.).

Misumena spinifera (Blackwall, 1862)

Material

- a. locationID: 25; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Porto Moniz; locality: Fanal; verbatimElevation: 890; decimalLatitude: 32.8236; decimalLongitude: -17.156; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male

Native status: macaronesian endemic

Distribution: Madeira island, Canary Islands

Xysticus nubilus Simon, 1875

Material

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 2 females

Native status: introduced

Distribution: Mediterranean, Macaronesia

Zodarion styliferum (Simon, 1870)

Materials

- a. locationID: 15; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Santana; locality: Pico do Areeiro; verbatimElevation: 1533; decimalLatitude: 32.7231; decimalLongitude: -16.9109; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 201 males, 63 females
- b. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Direct sampling; sex: 1 male
- c. locationID: 32; higherGeography: Macaronesia; continent: Europe; waterBody: Atlantic Ocean; islandGroup: Madeira archipelago; island: Madeira; country: Portugal; countryCode: PT; stateProvince: Madeira; county: Calheta; locality: Rabacas; verbatimElevation: 993; decimalLatitude: 32.7413; decimalLongitude: -17.0783; geodeticDatum: WGS84; samplingProtocol: Pitfall; sex: 14 males, 7 females

Native status: introduced

Distribution: Iberian Peninsula, Madeira island, Porto Santo island (introduced in the islands)

Discussion

Fifty two spider species and 3145 specimens are accounted in this study. Out of these, 17 are Madeira's endemics species (SIE) mostly restricted to Laurisilva. Range for most endemic spider species was expanded by this study (Figs 1, 2, 3, 4, 5) and six endemics [*Hahnia insulana* Schenkel, 1938, *Frontinellina dearmata* (Kulczynski, 1899), *Lepthyphantes mauli* Wunderlich, 1992, *Trogloneta madeirensis* Wunderlich, 1987, *Metastridulans* Wunderlich, 1987 and *Dipoenata longitarsis* (Denis, 1962)], were collected for the first time after their original description. A major finding of this study was the discovery of two species new to science, a species of *Ceratinopsis* Emerton, 1882, and a species of *Theridion* Walckenaer, 1805, apparently restricted to Laurisilva. The remaining thirty five spider species were assigned to one of the two following categories: non-endemic native (for both macaronesian endemics and species with a wider distribution) and introduced species. The inclusion of each species in these categories was based on distribution and species ecological traits. Sixteen species were classified as introduced species, including *Poeciloneta variegata* (Blackwall, 1841) and *Tetragnatha intermedia* Kulczynski, 1891, two new records for Madeira island. Two species with uncertain identity, *Macaroeris* sp. and "Linyphiidae unidentified species" were considered as non-endemic native species.

Species richness considerations

The highest values of species richness were found in sites 18, 7, 11, 12, 25 and 33, which were also among those with the largest number of endemics (Fig. 7, Table 2). The lowest species richness was recorded in site 31, with only 1 native species. Abundance was maximum on alpine meadow sites (15, 16), mostly due to the presence of several abundant species like *Zodarion styliferum*, *Haplodrassus dalmatensis* and *Zelotes civicus*. These ground-dwelling species are quite vagile and are among the top invertebrate predators of Madeiran altitudinal meadows. In most study areas, introduced species were more abundant than natives, with some exceptions, such as sites 11, 12, 13, 18, 25 and 34, where higher proportions of specimens from endemic species were recorded (Fig. 8). The lowest proportions of native and endemic species were recorded for sites 5, 19, 23, 31 and 35, where site 19 was the only sampled by both sampling techniques.

Table 2.

Species richness and abundance per study site. Sampling methods used, number of endemic (SIE), native and introduced species are presented for each site. Site codes as in Table 1.

Site	Species richness (S)			Abundance (N)			Sampling methods		
	Code	SIE	Native	Invasive	total	SIE	Native	Invasive	total
1	4	2	2	8	7	3	24	34	Pitfall & direct sampling
2	3	3	4	10	4	12	63	79	Pitfall & direct sampling
3	1	1	2	2	1	1	2	4	Pitfall
4	5	4	3	12	13	8	38	59	Pitfall & direct sampling

5	0	1	1	2	0	3	1	4	Pitfall
6	5	6	2	13	12	7	36	55	Pitfall & direct sampling
7	7	4	3	13	10	6	21	37	Pitfall & direct sampling
8	2	2	2	6	2	2	19	23	Pitfall & direct sampling
9	3	1	3	7	3	3	10	16	Pitfall & direct sampling
10	3	1	2	6	4	4	9	17	Pitfall & direct sampling
11	5	7	2	14	5	25	17	47	Pitfall & direct sampling
12	7	5	2	14	12	11	8	31	Pitfall & direct sampling
13	6	5	2	13	9	10	7	26	Pitfall & direct sampling
14	5	4	3	12	7	4	11	22	Pitfall & direct sampling
15	0	4	7	11	0	28	364	392	Pitfall
16	0	3	7	10	0	45	215	260	Pitfall
17	3	3	2	8	4	4	14	22	Pitfall & direct sampling
18	9	5	3	16	17	17	25	59	Pitfall & direct sampling
19	0	1	1	2	0	3	3	6	Pitfall & direct sampling
20	1	1	3	5	1	2	13	16	Pitfall
21	5	2	2	9	17	3	37	57	Pitfall & direct sampling
22	4	1	2	7	8	1	20	29	Pitfall & direct sampling
23	0	0	2	2	0	0	5	5	Pitfall
24	3	5	3	11	7	22	22	51	Pitfall & direct sampling
25	6	6	2	8	11	12	19	42	Pitfall & direct sampling
26	0	2	3	5	0	7	7	14	Pitfall & direct sampling
27	2	4	3	9	3	7	9	19	Pitfall & direct sampling
28	5	4	3	12	5	9	15	29	Pitfall & direct sampling
29	4	2	2	8	6	5	11	22	Pitfall & direct sampling
30	1	1	1	3	1	2	2	5	Pitfall
31	0	1	0	1	0	1	0	1	Pitfall
32	0	6	6	12	0	11	49	60	Pitfall
33	7	5	2	14	11	7	17	35	Pitfall & direct sampling
34	7	3	1	11	9	3	8	20	Pitfall & direct sampling
35	1	0	2	3	2	0	5	7	Pitfall
36	1	1	1	3	1	2	12	15	Pitfall

This study reveals a high number of endemic spider species in some locations, such as Chao da Ribeira (sites 17 and 18), Rabacal (site 33), Risco (site 34), Achada do Teixeira (sites 11 and 12), Ribeiro Frio (sites 13 and 14), Faja da Nogueira (sites 3 to 8) and Fanal (sites 23 to 28) that should therefore be the focus of further conservation biology of Madeiran spiders and their associated habitats. Those sites are the only where *Centromerus variegatus*, *Ceratinopsis infuscata*, *Dipoenata longitarsis*, *Frontinellina dearmata*, *Frontiphantes fulgurennotatus* and *Lepthyphantes mauli* are known to occur. However, the occurrence of these araneoid spiders in other locations within Madeira island is expected since they have a potentially high dispersal ability.

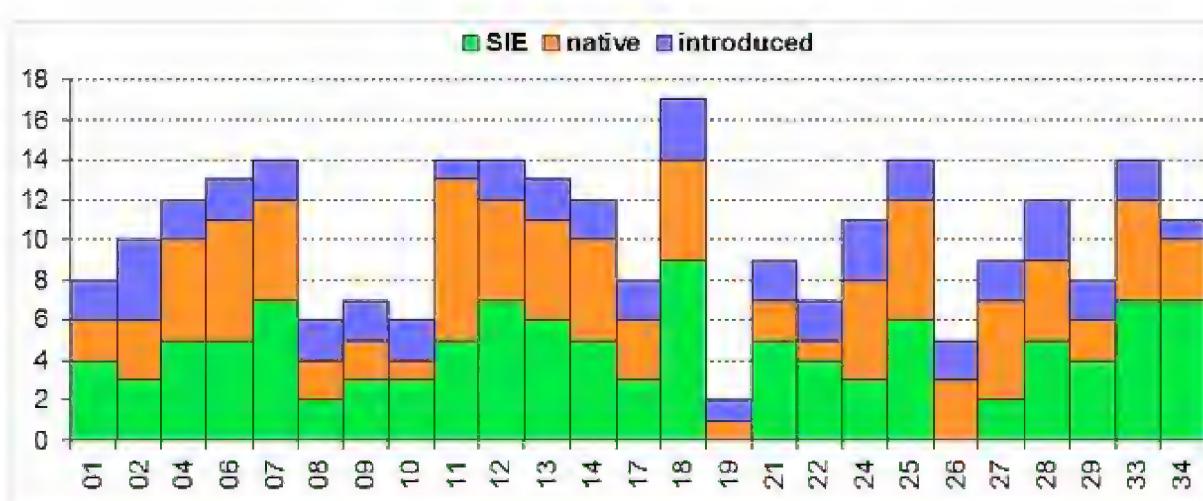


Figure 7.

Species richness values per site, highlighting the relative proportion of endemic, native and introduced species. The data of each site combines information from both pitfall and direct sampling. Suppl. material 1.

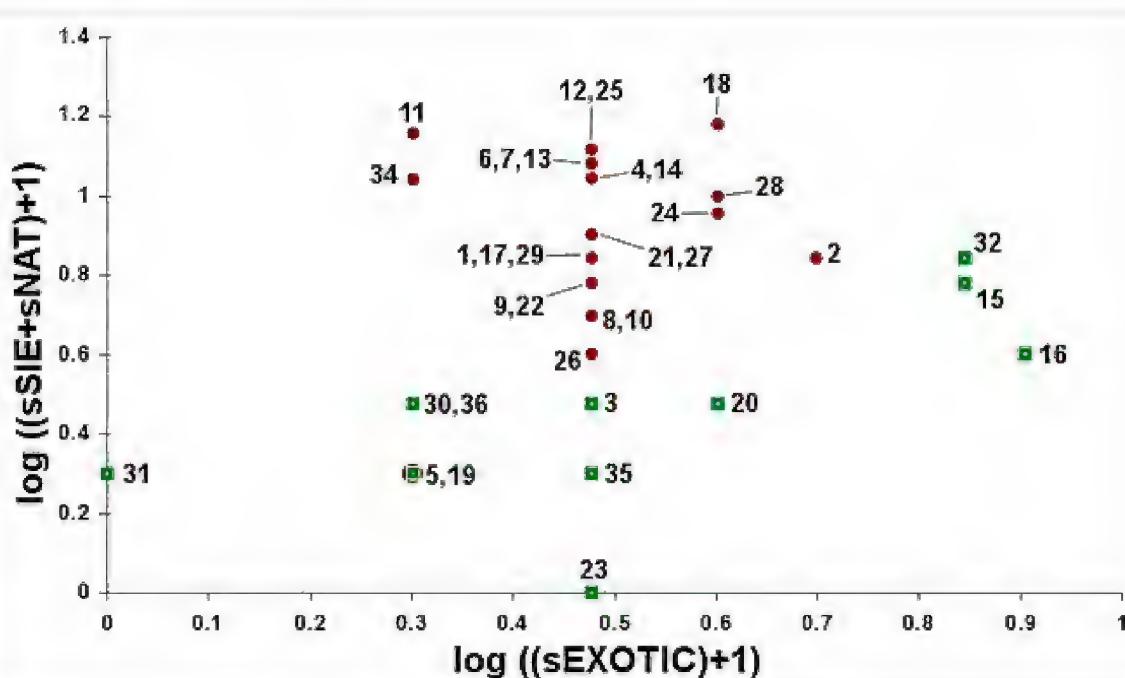


Figure 8.

Scatter plot of the log-transformed species richness of endemic and native species versus exotics for each sampling site. Red circles – from both pitfall trapping and direct sampling; Green squares – pitfall data only. Suppl. material 1.

This is the first time that a large set of standardized samples of spiders from Madeira island is reported. The distribution of several Madeiran endemic species was greatly increased, particularly *Macarophaeus cultior*, *Hahnia insulana*, *Turinyphia maderiana*, *Trogloneta madeirensis*, *Rugathodes madeirensis* and *Episinus maderianus*. Other endemics were recorded in fewer sites, but in most cases such species are still associated with Laurisilva. In some instances, the historical distribution of endemic spider species includes areas no longer covered by Laurisilva. An example is a record of *Centromerus variegatus* from Santo da Serra (Denis 1962), a site now covered by exotic forest but which was presumably dominated by endemic *Erica* shrubs just some decades ago.

The need to apply a combination of sampling techniques in a standardized design in order to assess species composition and structure of ecological communities has been strongly emphasized in the last few years by different authors (Borges and Wunderlich (2008), Borges et al. (2005), Borges et al. (2006), Cardoso (2009), Cardoso et al. (2009)). Accordingly, combining two complementary sampling techniques was determinant in our study to find a variety of spider species that use the habitat in different ways.

In complex habitats like Laurisilva, the prospection of microhabitats such as fallen logs and trees, tree holes, under tree bark and epiphytes allows the finding of species with highly specialized niches. Furthermore, several spider species seldom move or do not move at all at ground level, making direct sampling the most suitable detection technique. From the 52 spider species reported, 16 were collected exclusively using pitfall traps while 22 other species were only found by direct sampling. On the other hand, direct sampling proved to be an effective method to sample Madeiran endemics since most of the sampled endemic spider species were only collected using this technique (see also Fig. 8).

The original descriptions of some Madeiran endemics do not allow unequivocal identification since they were based on very few specimens or on specimens of a single gender. Thus, taxonomic revisions of several genera or families (i.e. *Dysdera* Latreille, 1804, *Hahnia* C.L. Koch, 1841, or the Linyphiidae) are mandatory for a better understanding of Madeiran spider biodiversity. Besides the merits of the present study in improving the knowledge on the distribution of spider species in Madeira island, it also allowed the collection of a number of specimens that will be the aim of future taxonomic studies, such as species redescriptions and formal descriptions of new species to science.

Madeira Laurisilva presents a unique spider biodiversity and efforts should be made towards improving knowledge on the abundance and distribution of endemic species as well as to develop a strategy for their conservation and monitoring.

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Supplementary material

Suppl. material 1: Species richness data

Authors: Luis Crespo

Data type: occurrences

Brief description: Data from where Figures 5 and 6 were built.

Filename: Supp_Mat_1.xls - [Download file](#) (20.00 kb)